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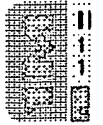
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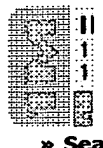
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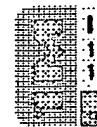
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192/3.21-150 - Clutches and Power-Stop Control  
303/all - Fluid-Pressure Brake and Analogous Systems  
474/all - Endless Belt Power Transmission Systems or Components  
475/all - Planetary Gear Transmission Systems or Components  
476/all - Friction Gear Transmission Systems or Components  
477/all - Interrelated Power Deliver Controls, Including Engine Control

This list includes [Patent](#) and [NPL](#) resources that are considered to be relevant to Classes 180, 184, 187, 188, 191, 192, 303, 474, 475, 476, 477 in TC3600.

Most of the electronic resources listed on this page are accessed via the Internet. Please obey USPTO "Rules of the Road ([PDF](#) [Text](#))" when using Internet resources.

#### **Patent-Only Resources (Grants and Published Applications)**

These resources should be considered during a prior art search in this technology.

Resource Name	Resource Description
US Patent, Classified and Text Search	<p>EAST/WEST, 1971-present. Classified Search. All patent documents in a classification are viewed for relevance to the patent application being searched. In some technologies only a "modified classified search" may be required; i.e., only certain patents in a classification need to be browsed, e.g., by a specific date range.</p> <p>Fulltext Search. Queries may include classification parameters when combined with other terms to be searched in the technical content of the application.</p>
BRS Search/USOCR Database	<p>EAST/WEST. Full text search of U.S. Patent Grants issued from 1920-1970. Includes the ability to formulate queries by classification.</p>

PGPUBS	EAST/WEST. Database of US published applications, from 2001 to the present. USPC classification or full text search capabilities.
EPO Abstracts, Text and Classified Search	EAST/WEST. English abstracts database of published unexamined applications from EPO, WO/PCT, United Kingdom, France, Germany, and Switzerland, about 1978-present  EPO patent documents in an USPC or an IPC classification are viewed for relevance to the patent application being searched. Includes a classified search in EAST or WEST. In some technologies only a "modified classified search" may be required; i.e., only certain patents in a classification need to be browsed, e.g., by a specific date range.
JPO Abstracts, Text and Classified Search	EAST/WEST. English abstracts database of published unexamined applications, 1976-present.  JPO patent documents in a USPC or an IPC classification are viewed for relevance to the patent application being searched. Includes a classified search in EAST or WEST. In some technologies only a "modified classified search" may be required; i.e., only certain patents in a classification need to be browsed, e.g., by a specific date range.
Derwent World Patents Index ,IPC Classified and Text Search	EAST/WEST. English abstracts database of patent documents from more than 40 patent-issuing authorities. Years of coverage vary, normally 1970-present.
FPAS3	EAST/WEST. A foreign document retrieval system including limited IPC classification and bibliographic search capability.
Espac@net <a href="http://ep.espacenet.com/">http://ep.espacenet.com/</a>	Database contains national patent information from any member state of the EPO as well as bibliographic data from patents worldwide published since 1920. Provides PDF images for the full text of patents from a number of countries. Has text search capabilities in the title and abstract fields as well as retrieval by IPC and ECLA classification numbers.
JPO Industrial Property Digital Library <a href="http://www.ipdl.ncipi.go.jp/homepg_e.ipdl">http://www.ipdl.ncipi.go.jp/homepg_e.ipdl</a>	Database contains Japanese patent information since 1976. Has text search capabilities in the title and abstract fields as well as retrieval by F and F1 terms.

#### NPL Resources

\* indicates highly relevant.

Resource Name	Resource Description
1Mobility (Global Mobility Database)	From the Society of Automotive Engineers (SAE), Inc., is a bibliographic database that contains information on worldwide literature of technologies for self-propelled vehicles. Vehicles include those for land, sea, air, and space. Coverage dates vary. <a href="http://www.cas.org/ONLINE/DBSS/1mobilityss.html">http://www.cas.org/ONLINE/DBSS/1mobilityss.html</a>
2Mobility (Global Mobility Standards)	From the Society of Automotive Engineers (SAE), Inc., is a bibliographic database that contains standards and specifications in the area of mobility engineering. Scientific and technical information is available for land, sea, air, and space vehicles. <a href="http://www.cas.org/ONLINE/DBSS/2mobilityss.html">http://www.cas.org/ONLINE/DBSS/2mobilityss.html</a>
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Aerospace Database	Provides access to key scientific and technical documents covering aerospace R&D in over 40 countries. 1962 - present. <a href="http://www.cas.org/ONLINE/DBSS/aerospacess.html">http://www.cas.org/ONLINE/DBSS/aerospacess.html</a>
AINS (Automotive Information and News Service)	Provides international coverage of news, information and the application of new technologies for the automotive industry. September 1987-present. <a href="http://ds.datastarweb.com/ds/products/datastar/sheets/ains.htm">http://ds.datastarweb.com/ds/products/datastar/sheets/ains.htm</a>
Architecture Database	Online version of the print publication Architectural Publications Index (API) compiled by the British Architectural Library . Includes monographs, exhibition catalogs etc. 1984-present. <a href="http://library.dialog.com/bluesheets/html/bl0179.html">http://library.dialog.com/bluesheets/html/bl0179.html</a>
Business & Industry™	Facts, figures, key events dealing with public and private companies, industries, etc. from leading trade magazines and newsletters. July 1994-present. <a href="http://library.dialog.com/bluesheets/html/bl0009.html">http://library.dialog.com/bluesheets/html/bl0009.html</a>
CMP Computer Fulltext	Full-text file with comprehensive coverage on computer, electronic; and communication industries. 1988 - present. <a href="http://library.dialog.com/bluesheets/html/bl0647.html">http://library.dialog.com/bluesheets/html/bl0647.html</a>
Conference Papers Index	Index of scientific and technical papers presented at over 1,000 major regional, national, and international meetings each year. 1973 - present. <a href="http://www.cas.org/ONLINE/DBSS/confsciss.html">http://www.cas.org/ONLINE/DBSS/confsciss.html</a>
Dissertation Abstracts	Contains abstracts of US and selected foreign doctoral works and selected masters theses. 1861 - present.

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<b>Ei Compendex® (Computerized Engineering Index)</b>	Abstracted information from 4,500 journals plus conference proceedings in engineering and technology, 1970 - present. <a href="http://library.dialog.com/bluesheets/html/bl0008.html">http://library.dialog.com/bluesheets/html/bl0008.html</a> <a href="http://www.cas.org/ONLINE/DBSS/compendexss.html">http://www.cas.org/ONLINE/DBSS/compendexss.html</a> <a href="http://www.questel.orbit.com/EN/customersupport/Userdoc/Fctsht/comp.pdf">http://www.questel.orbit.com/EN/customersupport/Userdoc/Fctsht/comp.pdf</a>
<b>Fluidex (Fluid Engineering Abstracts)</b>	Bibliographic database of the global literature in the use, control, and management of fluids for engineering applications. 1972-present. <a href="http://library.dialog.com/bluesheets/html/bl0096.html">http://library.dialog.com/bluesheets/html/bl0096.html</a>
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39.	2001-01-0662 : Experimental Modal Analysis of Automotive Exhaust Structures	03/05/2001	Paper	
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43.	2004-01-1519 : Stress Analysis and Lay-Up Optimization of An All-Composite Pick-Up Truck Chassis Structure	03/08/2004	Paper	
44.	2004-01-0012 : On the Accuracy of Cae Structural Simulations in Automotive Plastics Component Design	03/08/2004	Paper	
45.	2003-01-1333 : Numerical and Experimental Verification of Optimum Design Obtained From Topology Optimization	03/03/2003	Paper	
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File 347:JAPIO Nov 1976-2004/Nov(Updated 050309)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200517

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Set	Items	Description
S1	317552	MESH? ? OR OUTLINE? ? OR SKELETON? ? OR LATTICE? ? OR GRID?
		?
S2	2647	S1(5N)(3D OR 3()D OR (THREE OR MULTI OR N)()DIMENSION? OR - THREE()D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSION- AL)
S3	25108	CUBE? ? OR POLYHE?
S4	43538	(3D OR 3()D OR (THREE OR MULTI OR N)()DIMENSION? OR THREE(- )D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSIONAL)(3N- ) (OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? - OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S5	1319	S1(5N)DEFORM?
S6	11005	DEFORM??? (5N) (S3 OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR - VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? - OR BOD???)
S7	6738	(CHANG??? OR ALTER??? OR ALTERATION OR MODIF???? OR MODIFI- CATION? ? OR TRANSFORM? OR CONVER?) (5N)SHAPE? ? (5N) (S1 OR S3 - OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S8	63217	RESONANCE(3N)FREQUENC??? OR HARMONIC? ?
S9	813769	NOISE? ? OR IMPERFECTION? ? OR DEFECT? ? OR ABNORMAL? OR F- LAW? ? OR DISTORTED OR DISTORTION? ? OR ARTIFACT? ?
S10	208039	S9(5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECRE- AS? OR LESSEN?)
S11	98610	FREQUENC??? (5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECREAS? OR LESSEN?)
S12	4641	FREQUENC??? (5N) (OPTIMIZ? OR OPTIMIS? OR ENHANC?)
S13	49	POINT()CLOUD? ?
S14	51	S5:S7 AND S8
S15	0	S14 AND S13
S16	241	S5:S7 AND S10:S12
S17	0	S16 AND S13
S18	0	S8 AND S13
S19	3	S10:S12 AND S13
S20	0	S5:S7 AND S13
S21	6	S14 AND S10:S12
S22	9	S19 OR S21
S23	74	S16 AND (FREQUENC??? OR HARMONIC?)
S24	45	S14 NOT S22
S25	68	S23 NOT (S24 OR S22)
S26	28711	SET? ? (3N)POINT? ?
S27	0	S14 AND S26
S28	1	S16 AND S26
S29	562	S10:S12 AND S26
S30	69	S5:S7 AND S26
S31	1	S29 AND S5:S7



File 348:EUROPEAN PATENTS 1978-2005/Feb W04

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File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303

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Set	Items	Description
S1	274272	MESH? ? OR OUTLINE? ? OR SKELETON? ? OR LATTICE? ? OR GRID? ?
S2	3043	S1(5N)(3D OR 3()D OR (THREE OR MULTI OR N)()DIMENSION? OR - THREE()D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSION- AL)
S3	35059	CUBE? ? OR POLYHE?
S4	59298	(3D OR 3()D OR (THREE OR MULTI OR N)()DIMENSION? OR THREE(- )D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSIONAL)(3N- ) (OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? - OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S5	1086	S1(5N)DEFORM?
S6	11368	DEFORM??? (5N) (S3 OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR - VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? - OR BOD???)
S7	11610	(CHANG??? OR ALTER??? OR ALTERATION OR MODIF???? OR MODIFI- CATION? ? OR TRANSFORM? OR CONVER?) (5N)SHAPE? ? (5N) (S1 OR S3 - OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S8	34477	RESONANCE(3N)FREQUENC??? OR HARMONIC? ?
S9	345616	NOISE? ? OR IMPERFECTION? ? OR DEFECT? ? OR ABNORMAL? OR F- LAW? ? OR DISTORTED OR DISTORTION? ? OR ARTIFACT? ?
S10	86129	S9(5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECRE- AS? OR LESSEN?)
S11	64694	FREQUENC??? (5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECREAS? OR LESSEN?)
S12	8609	FREQUENC??? (5N) (OPTIMIZ? OR OPTIMIS? OR ENHANC?)
S13	26471	POINT()CLOUD? ? OR SET? ? (2N)POINT? ?
S14	18920	S9(5N)FILTER???
S15	2	S5:S7(50N)S8(50N)S13
S16	2	S5:S7(50N)FREQUENC??? (50N)S13
S17	2	S16 NOT S15
S18	2	S5:S7(50N)S10:S12(50N)S13
S19	62094	POINT()CLOUD? ? OR (SET? ? OR DATA OR INFORMATION) (2N)POIN- T? ?
S20	11	S5:S7(50N) (S8 OR FREQUENC??? OR S10:S12) (50N)S19
S21	6	S20 NOT S15:S18
S22	63	S5:S7(50N)S8
S23	62	S22 NOT S20:S21
S24	24	S23 AND AC=US/PR
S25	19	S24 AND AY=(1970:2001)/PR
S26	45	S23 AND PY=1970:2001
S27	48	S25:S26
S28	120	S5:S7(50N)FREQUENC??? (50N)S10:S12
S29	113	S28 NOT (S15:S18 OR S22)
S30	49	S29 AND AC=US/PR
S31	47	S30 AND AY=(1970:2001)/PR
S32	87	S29 AND PY=1970:2001
S33	94	S31:S32

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S1	1838653	MESH? ? OR OUTLINE? ? OR SKELETON? ? OR LATTICE? ? OR GRID? ?
S2	24496	S1(5N) (3D OR 3()D OR (THREE OR MULTI OR N) () DIMENSION? OR - THREE()D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSION- AL)
S3	109898	CUBE? ? OR POLYHE?
S4	306100	(3D OR 3()D OR (THREE OR MULTI OR N) () DIMENSION? OR THREE(- )D OR MULTI???()SIDE? ? OR MULTISIDED OR MULTIDIMENSIONAL) (3N- ) (OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? - OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S5	14173	S1(5N) DEFORM?
S6	19151	DEFORM??? (5N) (S3 OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR - VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? - OR BOD???)
S7	17713	(CHANG??? OR ALTER??? OR ALTERATION OR MODIF???? OR MODIFI- CATION? ? OR TRANSFORM? OR CONVER?) (5N) SHAPE? ? (5N) (S1 OR S3 - OR OBJECT? ? OR MODEL? ? OR FIGURE? ? OR VOLUME? ? OR ITEM? ? OR ENTIT??? OR IMAGE? ? OR STRUCTURE? ? OR BOD???)
S8	440169	RESONANCE(3N) FREQUENC??? OR HARMONIC? ?
S9	2881626	NOISE? ? OR IMPERFECTION? ? OR DEFECT? ? OR ABNORMAL? OR F- LAW? ? OR DISTORTED OR DISTORTION? ? OR ARTIFACT? ?
S10	232612	S9(5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECRE- AS? OR LESSEN?)
S11	153333	FREQUENC??? (5N) (ELIMINAT? OR FILTER? OR REDUC? OR REMOV??? OR DECREAS? OR LESSEN?)
S12	30766	FREQUENC??? (5N) (OPTIMIZ? OR OPTIMIS? OR ENHANC?)
S13	41427	POINT() CLOUD? ? OR SET? ? (2N) POINT? ?
S14	49546	(DATA OR INFORMATION) (2N) POINT? ?
S15	7	S5:S7 AND S8 AND S13:S14
S16	3	S5:S7 AND FREQUENC??? AND S13:S14
S17	7	S5:S7 AND S10 AND S13:S14
S18	17	S15:S17
S19	9	RD (unique items)

S20	797	S5:S7 AND S8
S21	16	S20 AND S10:S12
S22	13	RD (unique items)
S23	13	S22 NOT S19
S24	237	S5:S7 AND FREQUENC??? AND S10:S12
S25	11	S2:S4 AND S24
S26	11	RD (unique items)
S27	28	S2:S4 AND S8 AND S13:S14
S28	16	RD (unique items)
S29	4025	MUFFLER? ?
S30	2	S5:S7 AND S29
S31	751	S29 AND S10:S12
S32	6	S2:S4 AND S31
S33	5	RD (unique items)
?		